

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method for reducing the contamination of at least one optical component, that is contained inside a beam guidance space and that is held by a frame defining the beam guidance space, comprising:

coating the stainless steel surfaces of the frame neighboring the beam guidance space at least partially with a degassing barrier layer.

2. (Original) A method according to claim 1, wherein the degassing barrier layer is chosen such that it does not increase reflectivity.

3. (Original) A method according to claim 1, wherein the degassing barrier layer is designed such that it does not increase reflectivity for UV light with wavelengths of 157 nm, 193 nm, 248 nm, and 365 nm.

4. (Currently Amended) A method ~~according to claim 1~~ for reducing the contamination of at least one optical component, that is contained inside a beam guidance space and that is held by a frame defining the beam guidance space, comprising:

coating surfaces of the frame neighboring the beam guidance space at least partially with a degassing barrier layer,

wherein the degassing barrier layer is a chemically deposited nickel layer, or silver, gold, or tantalum layer.

5. (Original) A method according to claim 4, wherein the degassing barrier layer is a chemically deposited nickel layer in form of a NiP alloy layer applied in a chemical depositing process in an electrolyte that contains sodium hypophosphite as a reducing agent.

6. (Currently Amended) An optical beam guidance system for UV light, comprising:

- a frame defining a beam guidance space and containing at least one optical component inside the beam guidance space, and
- a degassing barrier layer that at least partially coats ~~the~~ a stainless steel surface of the frame neighboring the beam guidance space.

7. (Original) An optical beam guidance system according to claim 6, wherein the degassing barrier layer does not increase reflectivity.

8. (Original) An optical beam guidance system according to claim 6, wherein the degassing barrier layer does not increase reflectivity for UV light with wavelengths of 157 nm, 193 nm, 248 nm, and 365 nm.

9. (Currently Amended) An optical beam guidance system ~~according to claim 6~~ for UV light, comprising:

- a frame defining a beam guidance space and containing at least one optical component inside the beam guidance space, and
- a degassing barrier layer that at least partially coats a surface of the frame neighboring the beam guidance space,

wherein the degassing barrier layer is a chemically deposited nickel layer, or silver, gold, or tantalum layer.

10. (Original) An optical beam guidance system according to claim 9, wherein the chemically deposited nickel layer is a NiP alloy layer that was deposited chemically in an electrolyte that contains sodium hypophosphite as a reducing agent.

11. (Currently Amended) An optical beam guidance system according to claim 6, wherein the optical beam guidance system is configured as a lithography ~~illumination~~ exposure system.

12. (New) An optical beam guidance system according to claim 9, wherein the optical beam guidance system is configured as a lithography exposure system.

13. (New) A method according to claim 1, further comprising configuring the guidance space as a guidance space of a lithography exposure system.

14. (New) A method according to claim 4, further comprising configuring the guidance space as a guidance space of a lithography exposure system.